

# WATER QUALITY IN URBAN RIVERS CONFERENCE

## INSIGHT INTO MISCONNECTIONS IN THE RIVER GRIFFEEN, CARRICKMINES STREAM & SHANGANAGH RIVER CATCHMENTS

28<sup>TH</sup> MAY 2024

DURL PROJECT CO-ORDINATOR

LORRAINE BEIRNE



# DURL PROJECT AIMS

Carrickmines catchment

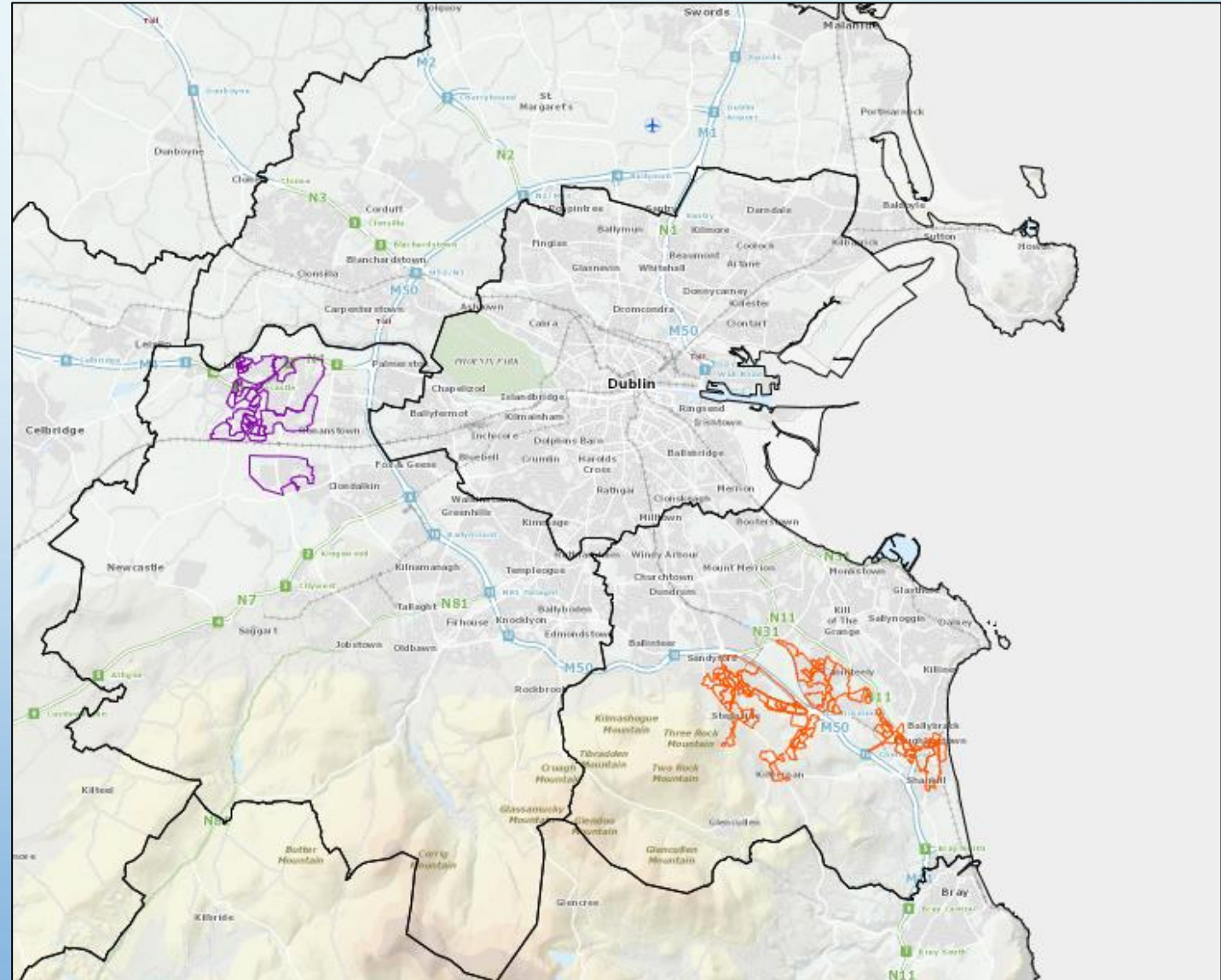
- ❑ **83** sub-catchments,  
**13018** properties

Griffeen catchment

- ❑ **28** sub-catchments,  
**14340** properties

- ❑ 12,000 Door to door assessments

- ❑ At source removal of 960 misconnections



# MISCONNECTION ASSESSMENTS

- ❑ Emphasis on Improvement of Local River & Received Very Positively By Homeowners
- ❑ Repairs at Homeowner Cost – Polluter Pays
- ❑ 17,000 Stormwater Drainage Checks Performed And 8,660 Misconnection Assessments From May 2021
- ❑ >1,044 Misconnected Appliances Found – 86% Repaired With Remaining Under Repair



Carrickmines Stream



River Griffeen

# VISIBLE IMPROVEMENTS

GN021 Stormwater Outfall to River Griffeen after misconnections removed

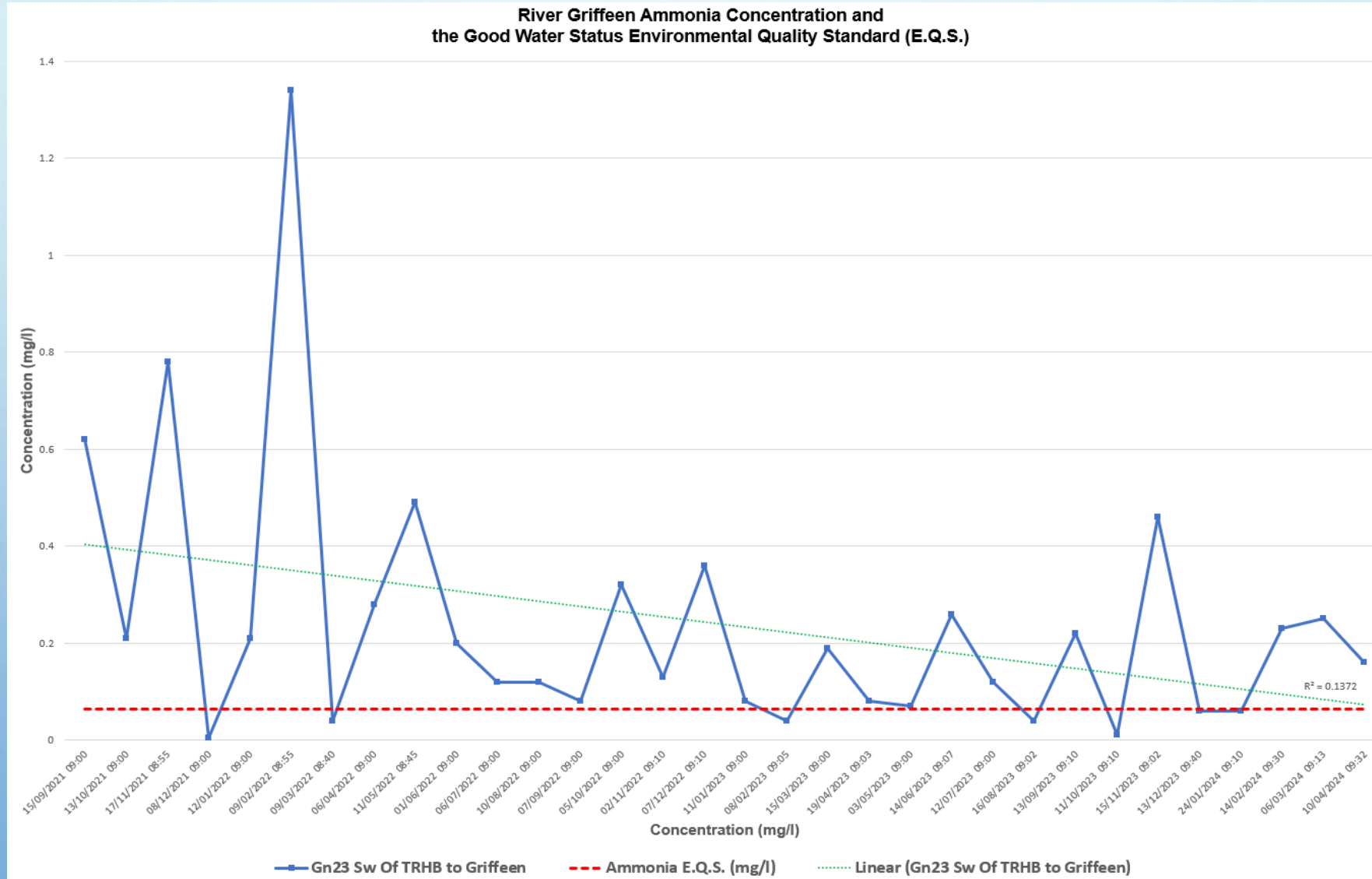
**BEFORE**



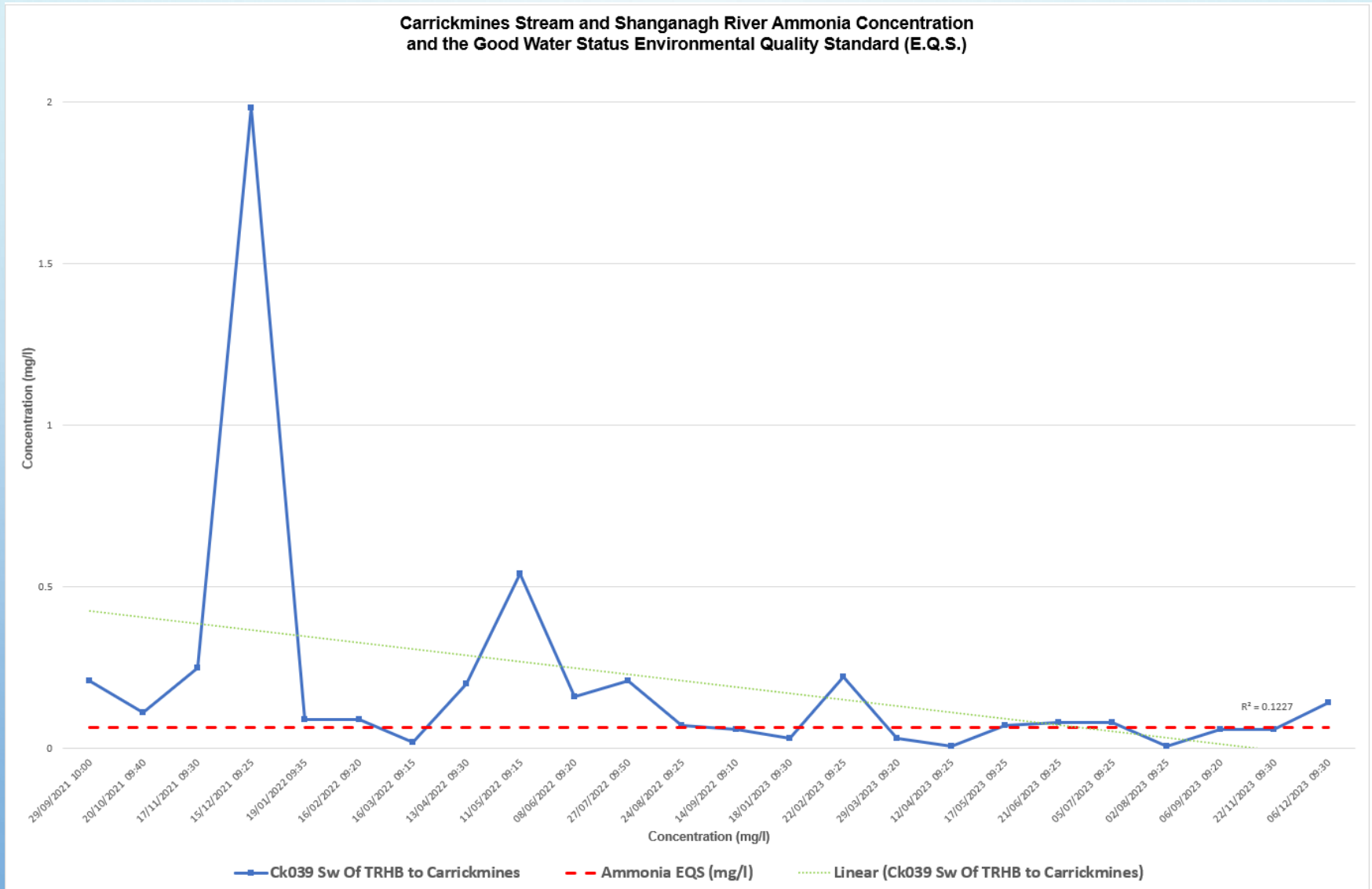
**AFTER**



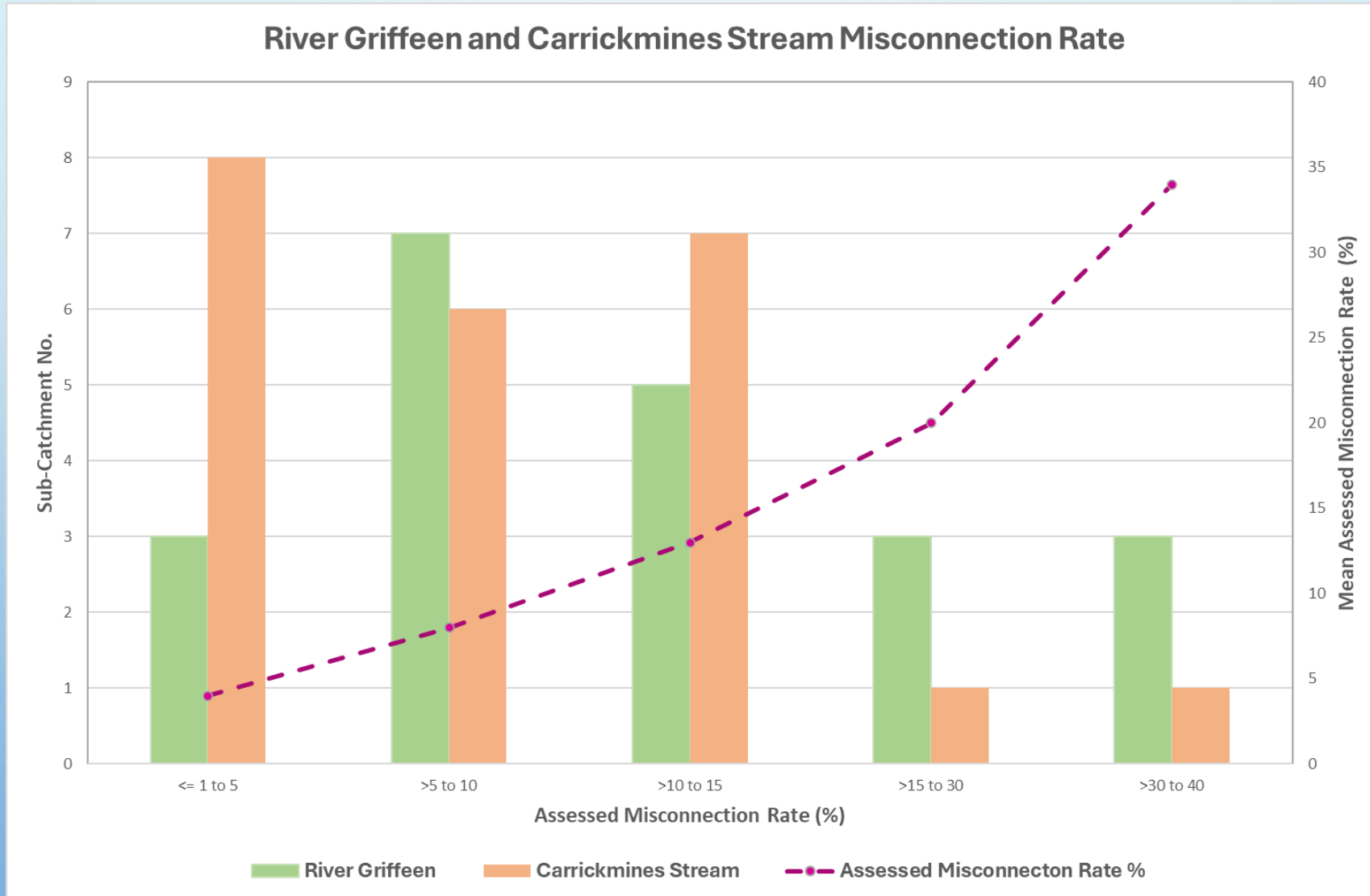
# WATER QUALITY RESULTS



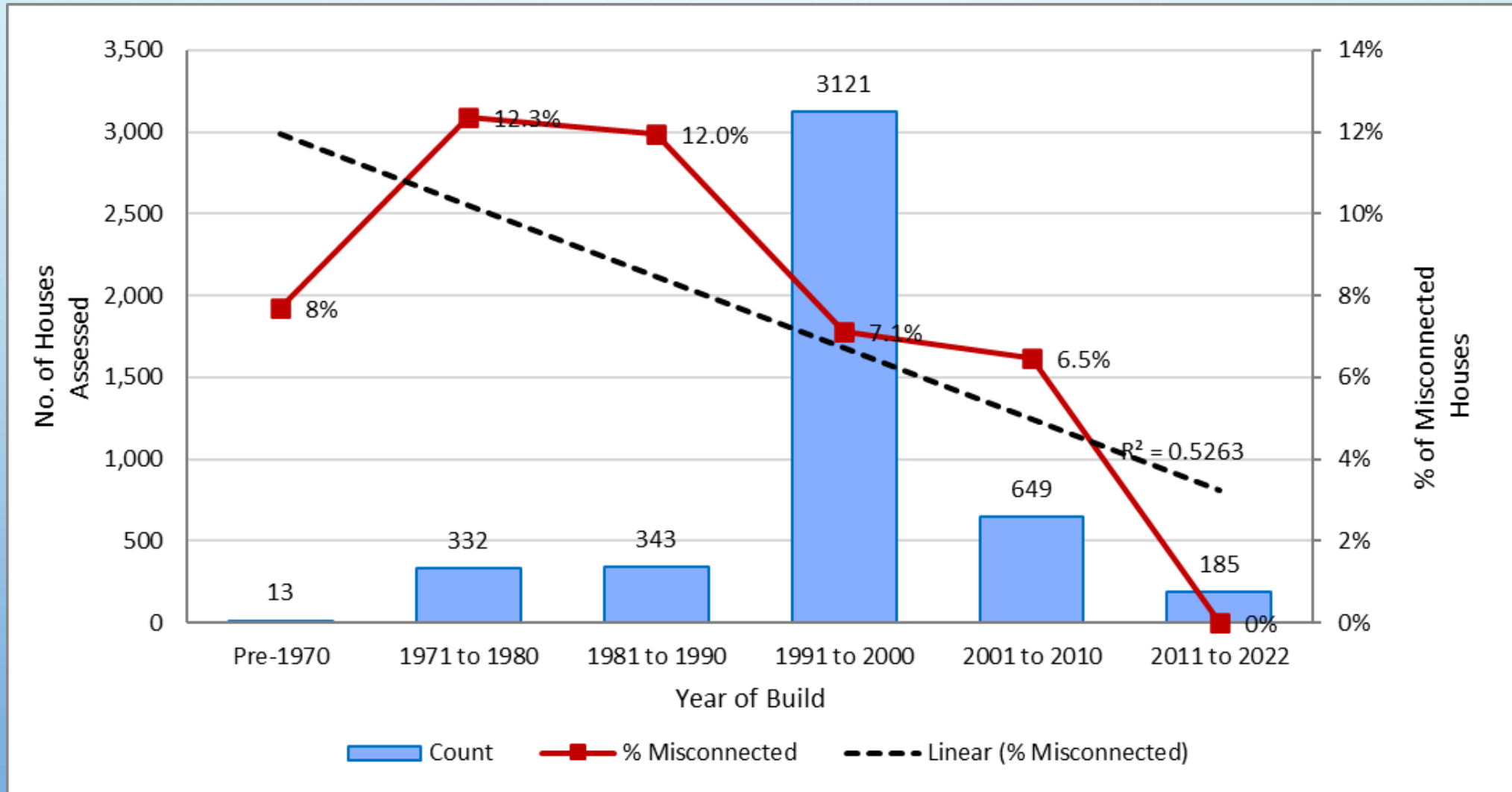
# WATER QUALITY RESULTS



# MISCONNECTION RATE

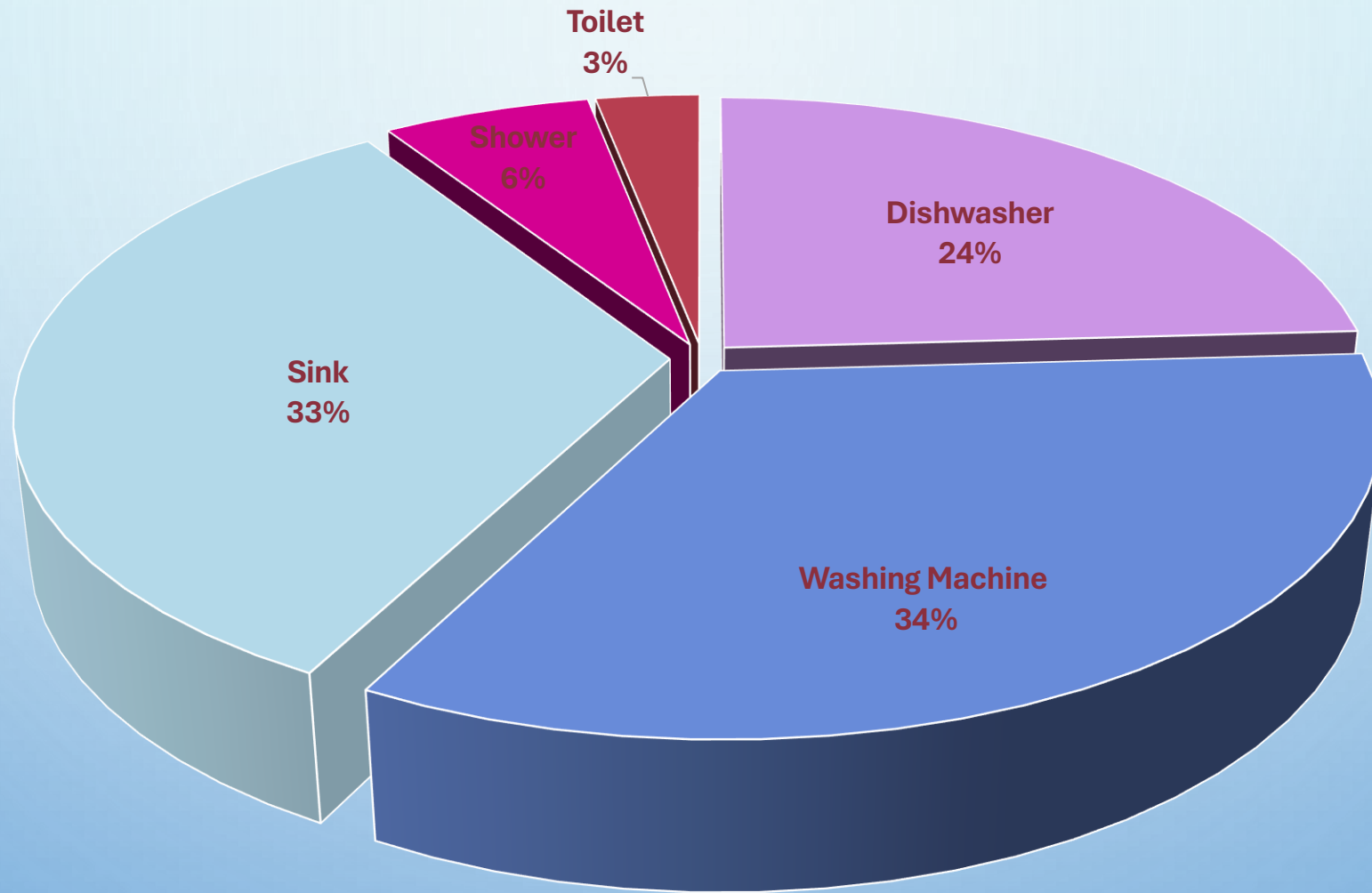


# MISCONNECTED HOUSES

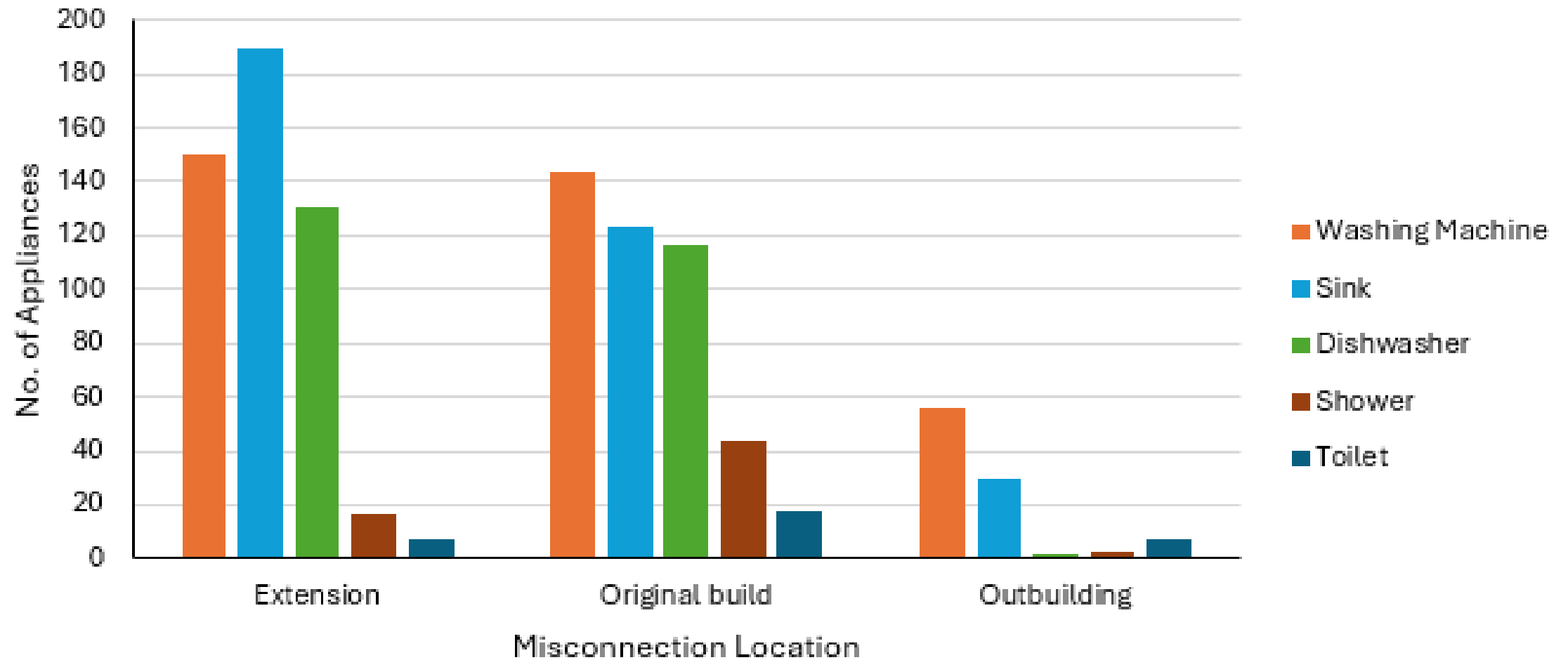




# MISCONNECTED APPLIANCE BY TYPE



# WHAT'S MISCONNECTED

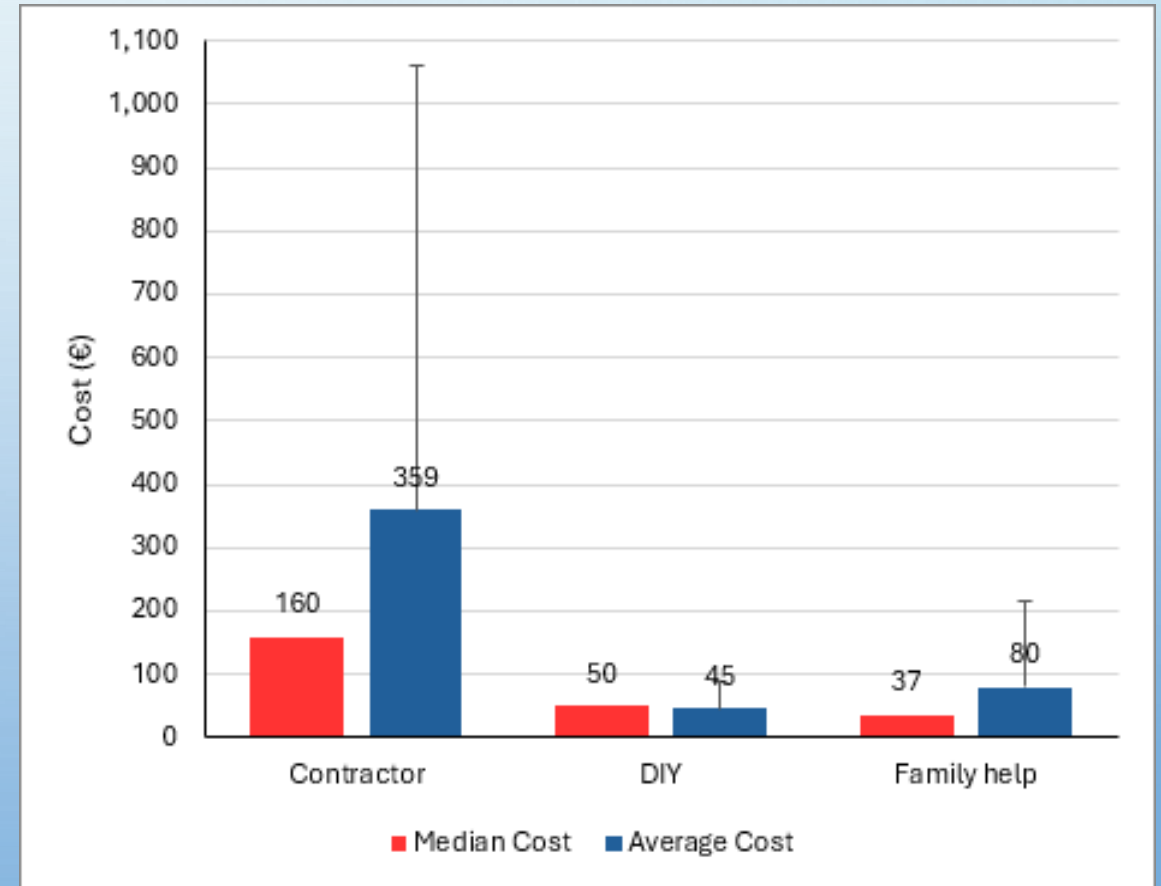
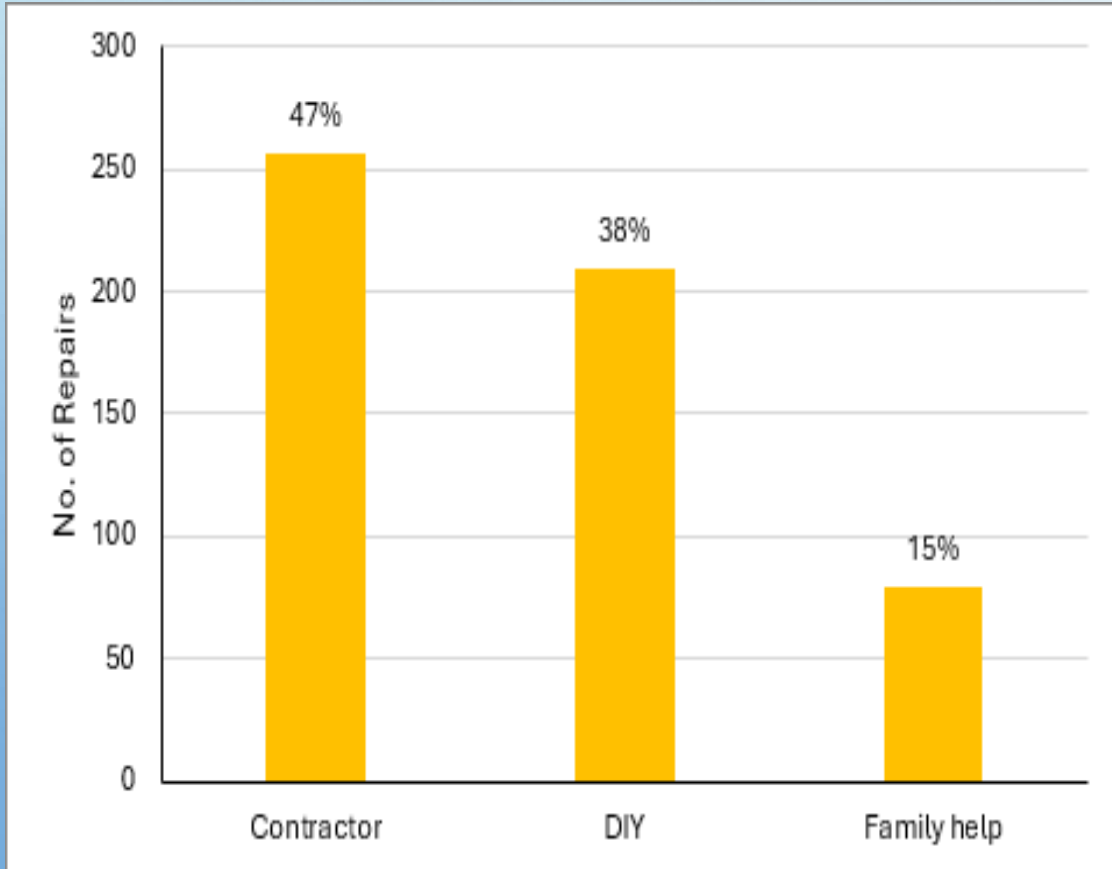


AVERAGE OF 1.6 MISCONNECTIONS PER PROPERTY

# COST OF REPAIRS

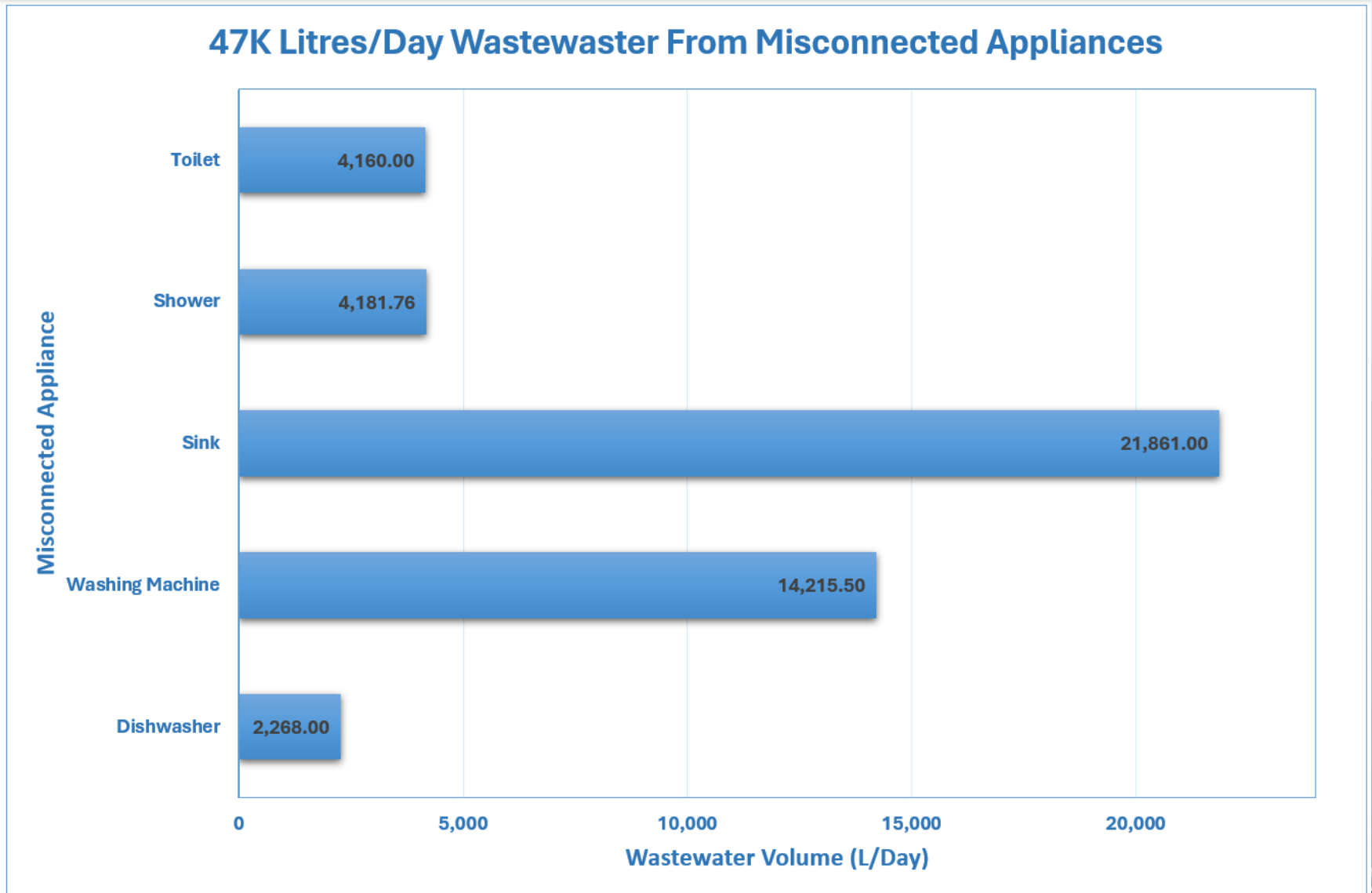
- 47% of repairs are done by contractors and 53% by DIY or family help

- Family Help €37
- DIY is cheapest €50
- Contractor €160



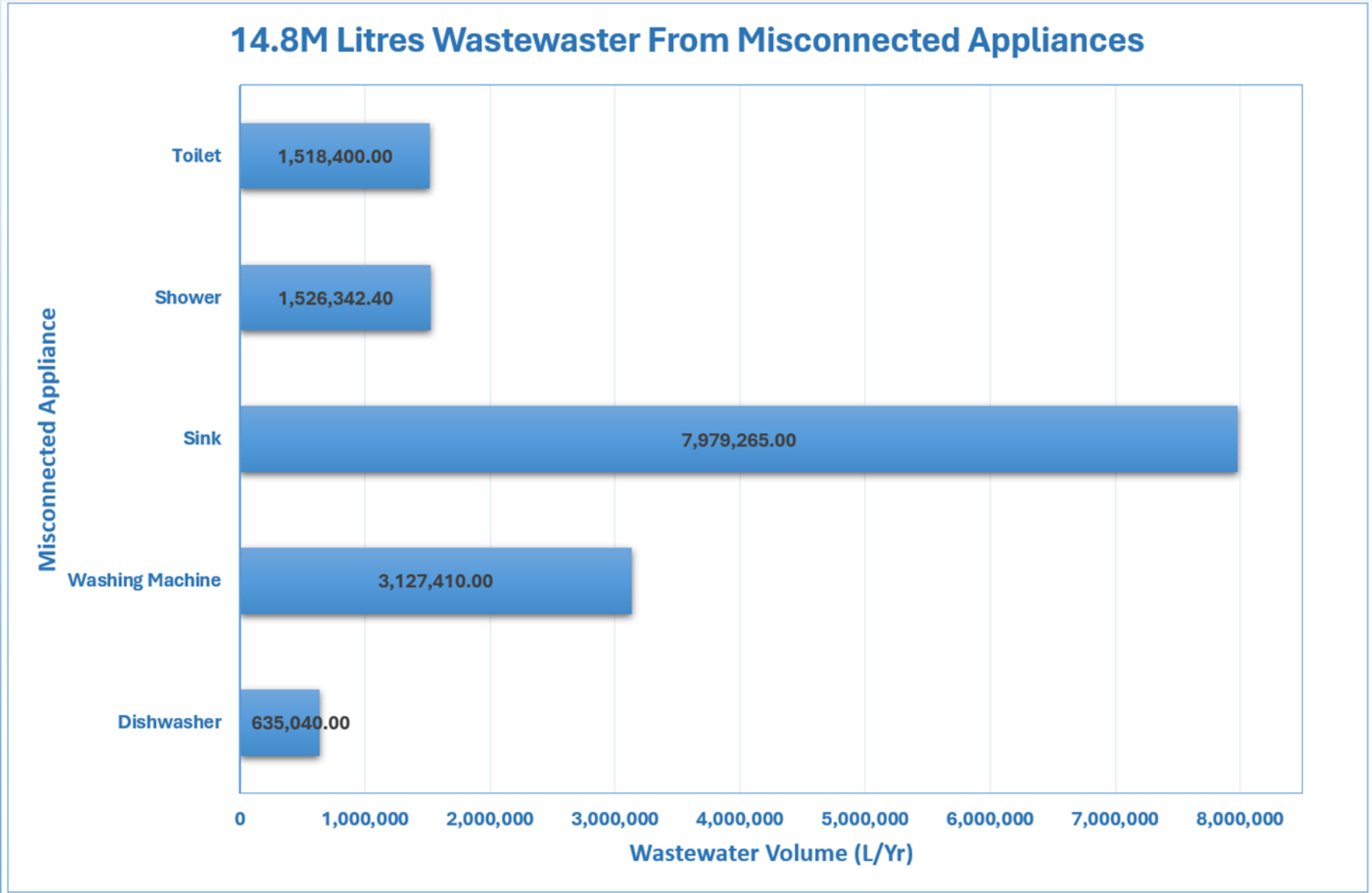
# MISCONNECTED WASTEWATER VOLUME

47K Litres/Day Wastewater From Misconnected Appliances



# MISCONNECTED WASTEWATER VOLUME

14.8M Litres Wastewater From Misconnected Appliances





# Thank You

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**DURL PROJECT  
WATER QUALITY IN URBAN RIVERS  
CONFERENCE  
28<sup>TH</sup> MAY 2024**

**LUNCH BREAK  
RETURN 2.00pm**

